

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number
WO 2005/096818 A1

(51) International Patent Classification⁷: **A01N 43/54**,
C07D 239/52, A01N 43/60, C07D 251/20

Tochigi 323-0022 (JP). NAKAMURA, Shin [JP/JP];
4-4-8, Joto, Oyama-shi, Tochigi 323-0807 (JP).

(21) International Application Number:
PCT/EP2005/002952

(74) Agent: SCHWENK, Norbert; c/o Bayer CropScience
GmbH Law and Patents, Building K 607, 65926 Frankfurt
(DE).

(22) International Filing Date: 19 March 2005 (19.03.2005)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-109197 1 April 2004 (01.04.2004) JP
2004-214777 22 July 2004 (22.07.2004) JP
2004-355616 8 December 2004 (08.12.2004) JP

(71) Applicant (for all designated States except US): BAYER
CROPSCIENCE AG [DE/DE]; Alfred-Nobel-Str. 50,
40789 Monheim (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ARAKI,
Koichi [JP/JP]; 2-4-39, Kamiya, Ushiku-shi, Ibaraki
300-1216 (JP). KUDO, Sachio [JP/JP]; 3-8-17, Kasuga,
Tsukuba-shi, Ibaraki 305-0821 (JP). SATO, Yoshitaka
[JP/JP]; 1-8-12, Hanahata, Tsukuba-shi, Ibaraki 300-3261
(JP). ENDO, Keiji [JP/JP]; 4233-4, Ami, Ami-machi,
Inashiki-gun, Ibaraki 300-0331 (JP). SHIRAKURA,
Shinichi [JP/JP]; 2-6-3, Ekihiyashidouri, Oyama-shi,

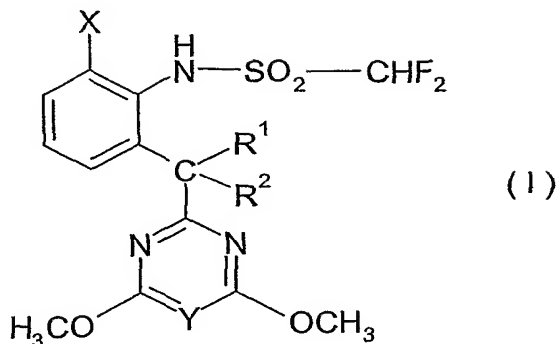
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: DIFLUOROMETHANESULFONYL ANILIDE DERIVATIVES USEFUL AS HERBICIDES



(57) Abstract: Novel difluoromethanesulfonamide derivatives
of the formula (I) Difluoromethanesulfonamide derivatives
represented by the formula wherein X represents halogen, Y
represents CH or N, R¹ represents hydrogen, and R² represents
hydrogen or hydroxy, or R¹ and R² together may form
C=O with the carbon atom to which they are bonded, and
their use as herbicide for paddy field weeds.

WO 2005/096818 A1